



HUGHES GROUP ARCHITECTS

22630 DAVIS DRIVE, SUITE 175
STERLING, VIRGINIA 20164
703.437.6600

CIVIL:
ALPHA CORPORATION
21351 RidgeTop Circle, Suite 200
Sterling, VA 20166
(703) 450-0800

STRUCTURAL:
EHLERT-BRYAN
1451 Doley Madison Blvd. Suite 220
McLean, VA 22101
(703) 827-9552

MECHANICAL/ELECTRICAL:
BRINJAC ENGINEERING
4000 Albermarle Street, NW
Washington, DC 20016
(202) 237-2750



PURCELLVILLE FIRE AND RESCUE

500 MAPLE AVE. BUILDING #
PURCELLVILLE, VIRGINIA

SITE PLAN - ELECTRICAL

KEY PLAN



REVISIONS:

ISSUES:
9-26-07 BID SET

STAMP AND SEAL:

DATE:
09-26-07

SCALE:
AS NOTED

PROJECT NO.
0611

SHEET:
E-002

GENERAL NOTES:

- PRIOR TO INSTALLATION OF ANY SITE UTILITIES INCLUDING EQUIPMENT PADS, DUCTBANKS, MISCELLANEOUS CONDUIT, OR OTHER EQUIPMENT, THE CONTRACTOR SHALL CONFIRM ALL FINAL CONNECTIONS, EQUIPMENT LOCATIONS, AND CONDUIT ROUTING WITH UTILITY COMPANY IN THE FIELD.
- PROVIDE PULL STRING FOR ALL CONDUITS FOR USE BY UTILITY COMPANIES. PROVIDE PULL STRING IN ANY SPARE/UNUSED CONDUITS FOR FUTURE USE. PROVIDE CAPS ON ANY SPARE/UNUSED CONDUITS.

KEYED NOTES:

- ARROWHEAD INDICATES DIRECTION OF OPTICS.
- ALL CONDUIT SHOWN ON THIS DRAWING SHALL BE INSTALLED 36" BELOW FINISHED GRADE. PROVIDE CONCRETE ENCASEMENT FOR ALL CONDUIT THAT PASSES UNDER A ROADWAY. SEE DRAWING E-501 FOR TYPICAL CONDUIT INSTALLATION DETAILS.
- POWER CONNECTION FOR SIGN LIGHT FIXTURE.
- EXISTING UTILITY POLE AND OVERHEAD ELECTRICAL LINE.
- PRIMARY ELECTRICAL SERVICE TO NEW TRANSFORMER. SEE DUCTBANK DETAIL 'A'- 'A' ON DRAWING E-501 FOR DETAILS. TERMINATE CONDUITS AS REQUIRED BY UTILITY COMPANY SPECIFICATIONS.
- NEW TRANSFORMER VAULT. SEE TRANSFORMER VAULT AND GROUNDING DETAILS ON DRAWING E-501. COORDINATE ACTUAL INSTALLATION LOCATION WITH UTILITY COMPANY.
- SECONDARY ELECTRICAL SERVICE TO NEW CT CABINET. SEE DUCTBANK DETAIL 'B'- 'B' ON DRAWING E-501 FOR DETAILS. TERMINATE CONDUITS AS REQUIRED BY UTILITY COMPANY SPECIFICATIONS.
- NEW CT CABINET AND METER BASE. PROVIDE CT CABINET AND METER BASE TO UTILITY COMPANY SPECIFICATIONS. PROVIDE ALL WIREWAYS, CONDUIT AND WIRING AS REQUIRED TO ALLOW TERMINATION OF 12-4" CONDUITS (SIX FROM TRANSFORMER, SIX TO MDP). COORDINATE FINAL LOCATION WITH UTILITY COMPANY IN THE FIELD.
- SECONDARY ELECTRICAL SERVICE TO MDP. SEE DUCTBANK DETAIL 'B'- 'B' ON DRAWING E-504 FOR DETAILS. TERMINATE THREE CONDUITS IN PANEL MDP, AND STUB REMAINING THREE CONDUIT 1" ABOVE FINISHED FLOOR AND CAP.
- PANEL 'MDP'.
- LOCATION OF ELECTRICAL ROOM 22.
- LOCATION OF TELECOM ROOM 23.
- LOCATION OF FIRE WATCH ROOM 16.
- LOCATION OF RESCUE WATCH ROOM 66.
- CONDUITS FOR TELEPHONE, CATV, AND FIBER. SEE DUCTBANK DETAIL 'C'- 'C' ON DRAWING E-501 FOR DETAILS. TERMINATE CONDUITS IN TELECOM ROOM AS SHOWN ON DRAWING E-500. COORDINATE INSTALLATION OF DUCTBANK WITH UTILITY COMPANIES TO INSURE CONDUIT SWEEPS MEET UTILITY COMPANY REQUIREMENTS.
- COORDINATE TERMINATE TYPE AND LOCATION WITH UTILITY COMPANIES IN THE FIELD.
- PROVIDE GENERATOR WITH SUB-BASE FUEL TANK ON EQUIPMENT PAD. PROVIDE TWO OUTPUT BREAKERS, ONE 800A-3P FOR PANEL 'NEBP' AND ONE 100A-3P FOR PANEL 'LS'. SEE ONE-LINE DIAGRAM AND EQUIPMENT PAD DETAIL ON DRAWING E-501 FOR MORE INFORMATION.
- PROVIDE ONE 2" CONDUIT FROM GENERATOR CONTROL PANEL TO FIRE WATCH ROOM 16, TERMINATING AT CONTROL PANEL 'A' FOR REMOTE ANNUNCIATOR. PROVIDE CONTROL AND SIGNAL WIRING AS NECESSARY FOR REMOTE ANNUNCIATOR.
- PROVIDE TWO 1" CONDUITS FROM GENERATOR TO ELECTRICAL ROOM 22. ONE CONDUIT SHALL PROVIDE POWER CIRCUITS FROM PANEL 'LS' TO JACKET HEATER AND BATTERY CHARGER. ONE CONDUIT SHALL BE USED FOR CONTROL CIRCUIT WIRING FROM ATS'S. PROVIDE CONTROL WIRING AS REQUIRED BY EQUIPMENT MANUFACTURER FOR REMOTE CONTROL OF GENERATOR.
- PROVIDE 2" CONDUIT FROM CONTROL PANEL 'B' TO CORNER OF TRUCK ENTRANCE FOR FUTURE TRAFFIC SIGNAL CONTROL. CAP CONDUIT, PROVIDE PULL STRING, AND PROVIDE GROUND MARKER AT LOCATION OF CONDUIT END.
- PROVIDE 2" CONDUIT FROM ONE CORNER OF TRUCK ENTRANCE ACROSS ROADWAY FOR FUTURE TRAFFIC SIGNAL CONTROL. CAP CONDUIT, PROVIDE PULL STRING, AND PROVIDE GROUND MARKER AT LOCATION OF CONDUIT ENDS.
- PROVIDE 2" CONDUIT FROM CONTROL PANEL 'C' TO CORNER OF TRUCK ENTRANCE FOR FUTURE TRAFFIC SIGNAL CONTROL. CAP CONDUIT, PROVIDE PULL STRING, AND PROVIDE GROUND MARKER AT LOCATION OF CONDUIT END.
- LOCATION OF PUMP STATION CONTROL PANEL. COORDINATE FINAL LOCATION AND CONNECTION WITH EQUIPMENT INSTALLER IN THE FIELD.
- PROVIDE TWO 2" CONDUITS FROM PUMP STATION CONTROL PANEL TO WET-WELL FOR PUMP POWER, SIGNAL WIRING AND CONTROL WIRING.
- PROVIDE ONE 2" CONDUIT FROM OIL/WATER SEPARATOR TO MECHANICAL ROOM 061 FOR CONTROL PANEL SIGNAL WIRING.
- COORDINATE LOCATION OF POLE BASE WITH WATER/SEWER LINE IN THE FIELD. LOCATE BASE AS CLOSE TO POSITION SHOWN ON THE PLAN AS POSSIBLE.
- PROVIDE ONE 1" CONDUIT 36" BELOW FINISHED GRADE FOR LIGHTING CIRCUITS.
- CONNECT THIS FIXTURE HEAD TO CIRCUIT 'NE1-94'.
- COORDINATE EXACT LOCATION OF FIXTURE TYPE OA-100 WITH THE FLAG POLES IN THE FIELD.

0 16 24 32 48

NOTE:
CONTRACTOR SHALL CHECK &
VERIFY ALL DIMENSIONS &
EXISTING CONDITIONS AT SITE.

BID SET

SITE PLAN - ELECTRICAL

SCALE: 1/16" = 1'-0"